EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	708	703/21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 16:09
L2	143	L1 and data adj storage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 16:09
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S1	43443	(model$3 or simulat$3) same ((data adj storage) or database)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 12:24
S2	1588	S1 and (load near3 balancing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 12:23
S3	379	S2 and (storage same capacity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 12:23
S4	133	S3 and performance same optim$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 12:23
S5	3899	S1 and (database or (data and storage)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 12:24

S6	132	S5 and (load near3 balanc$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 12:24
S7	92	S6 and performance and optim$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 12:29
S8	10	("5754772" | "6085198" | "6125363" | "6134594" | "6175869" | "6209029" | "6266666" | "6286104" | "6446109").PN. OR ("6950848"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 12:28
S9	2	"5325505".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 14:01
S10	231	(database or (data near2 storage)).ab. and (load near3 balanc$3) and consolidat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 12:59
S11	146	S10 and capacity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 12:59
S12	139	S11 and performance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 13:00
S13	25	S12 and simulat$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/10 13:00
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Terms used
data storage load balancing consolidate OR consolidation

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1 **The hB $^\Pi$-tree: a multi-attribute index supporting concurrency, recovery and node consolidation**
Georgios Evangelidis, David Lomet, Betty Salzberg
February 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 pdf(314.15 KB)   Additional Information: full citation, abstract, citings, index terms

We propose a new multi-attribute index. Our approach combines the hB-tree, a multi-attribute index, and the Π-tree, an abstract index which offers efficient concurrency and recovery methods. We call the resulting method the hB $^\Pi$-tree. We describe several versions of the hB $^\Pi$-tree, each using a different node-splitting and index-term-posting algorithm. We also describe a new node deletion algorithm. We have implemented all the versions of the hB $^\Pi$-tree. Our performance results ...

Keywords: Concurrency, Multi-attribute index, Node consolidation, Recovery

2 **External memory algorithms and data structures: dealing with massive data**
Jeffrey Scott Vitter
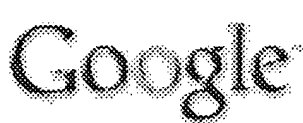June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(828.40 KB)   Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

3

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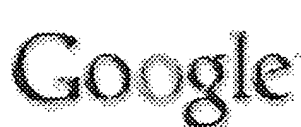IBM System **Storage** TS1120 Tape Drive **Model** E05 enhances **performance** and
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